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CENTRAL FAX CENTER

OCT 16 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/660,687

Applicant: Mueller et al.

Filed: September 11, 2003

TC/AU: 2822

Examiner: Guerrero

Docket No.: 00001CON (LVM Reference No. 224367)

Customer No.: 29050

DECLARATION UNDER 37 C.F.R. § 1.131 OF BRIAN MUELLER, JEFFREY CHAMBERLAIN, AND DAVID SCHROEDER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

We, Brian Mueller, Jeffrey Chamberlain, and David Schroeder, do hereby declare:

- 1. We are the inventors of the subject matter disclosed and claimed in the aboveidentified patent application ("the present invention").
- 2. The present invention was conceived of and reduced to practice prior to January 6, 2000.
- 3. As merely an example of both the conception and reduction to practice of the present invention, Exhibit A is attached to this Declaration.
- 4. Exhibit A is a true and accurate copy an internal memo written before January 6, 2000. Dates and irrelevant information have been redacted from Exhibit A as attached hereto. Exhibit A shows the results of polishing a substrate comprising silicon dioxide with a polishing composition comprising an abrasive (i.e., silica), an amine (i.e., dimethyl-aminomethyl-propanol), and a source of fluoride ions (i.e., HF).

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Application No. 10/660,687

5. We hereby declare that all statements made herein of our own knowledge are true, that all statements made on information and belief are believed to be true, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 9-18-06	B- Much
Date: 10/13/06	Brian Mueller Jeffrey Chamberlain
Date:	David Schroeder

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- 3. As merely an example of both the conception and reduction to practice of the present invention, Exhibit A is attached to this Declaration.
- 4. Exhibit A is a true and accurate copy an internal memo written before January 6, 2000. Dates and irrelevant information have been reducted from Exhibit A as attached hereto. Exhibit A shows the results of polishing a substrate comprising silicon dioxide with a polishing composition comprising an abrasive (i.e., silica), an amine (i.e., dimethyl-aminomethyl-propanol), and a source of fluoride ions (i.e., HF).

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Date;	
	Brian Mueller
Date:	•
•	Jeffrey Chamberlain
Date: 10/16/2006	Il ph
	David Schmeder

CABOT

DIVISION/SUBSIDIARY MMD				
RECORD OF INVENTION DISCLO		D00001		
Title: High Rate Sturm	for Oxide Polishing	**************************************		
Description: (Attach extra pages as a photographs, etc., where be Laboratory Notebook).	required. Include drawing helpful. Refer to number	s, sketches, and page of		
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SUBMITTER(s)	0			
(Signature of Submitter)	Drian Phether			
\\I_PO\\\ =	(Printed Name)	(Date)		
Asignature of Submitter)	(Printed Name)	(Date)		
MA	David T. Soluctor	(,		
(Signature of Submitter)	(Printed Name)	(Date)		
Explained to and understood	by Witness not involved in	the Project		
Elastz Snine	. Vlasta Brusic	-		
(Signature of Witness)	(Printed Name) . O	(Date)		

PLEASE COMPLETE & SEND TO INTELLECTUAL PROPERTY GROUP, BILLERICA

PAGE 10/11 * RCVD AT 10/16/2006 5:45:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/8 * DNIS:2738300 * CSID:312 616 5700 * DURATION (mm-ss):02-14

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OCT 16 2006

RID

Title: High Rate Slurry for Oxide Polishing

Description:

The combination of DMAMP (dimethyl-amino-methyl-propanol) and HF actually increases the overall oxide removal rate by up to 29% over that of the control (Table I).

Potential applications for this invention include, but are not limited to, general ILD polishing, direct STI of IC wafers, and high-oxide removal rate for both IC and rigid disk manufacture.

Table I

DMAMP(F)		% difference
dosage (molar)	removal rate (A/min)	from control
0 (control)	3128	0%
0.74	3794	+21%
1.44	4046	+29%
2,18	3946	+26%
2.88	3215	+3%
3.71	682	-78%